

WHAT IS CLAIMED IS:

1. An isolated polynucleotide comprising a member selected from the group consisting of:

(a) a polynucleotide encoding the polypeptide comprising amino acid -23 to amino acid 207 as set forth in Figure 1;

(b) a polynucleotide encoding the polypeptide comprising amino acid 1 to amino acid 207 as set forth in Figure 1;

(c) a polynucleotide encoding the polypeptide comprising amino acid 1 to amino acid 150 as set forth in Figure 1;

(d) a polynucleotide encoding the polypeptide comprising amino acid 45 to amino acid 150 as set forth in Figure 1;

(e) a polynucleotide capable of hybridizing to and which is at least 70% identical to the polynucleotide of (a), (b), (c) or (d); and

(f) a polynucleotide fragment of the polynucleotide of (a), (b), (c), (d) or (e).

2. The polynucleotide of Claim 1 wherein the polynucleotide is DNA.

3. An isolated polynucleotide comprising a member selected from the group consisting of:

(a) a polynucleotide which encodes a mature polypeptide encoded by the DNA contained in ATCC Deposit No. 97142;

(b) a polynucleotide which encodes a polypeptide expressed by the DNA contained in ATCC Deposit No. 97142;

(c) a polynucleotide capable of hybridizing to and which is at least 70% identical to the polynucleotide of (a) or (b); and

(c) a polynucleotide fragment of the polynucleotide of (a), (b) or (c).

4. The polynucleotide of claim 2 comprising the sequence as set forth in Figure 1 from nucleotide 1 to nucleotide 771.

5. The polynucleotide of claim 2 comprising the sequence as set forth in Figure 1 from nucleotide 62 to nucleotide 771.

6. The polynucleotide of claim 2 comprising the sequence as set forth in Figure 1 from nucleotide 151 to nucleotide 771.

7. The polynucleotide of claim 2 comprising the sequence as set forth in Figure 1 from nucleotide 283 to nucleotide 600.

8. A vector containing the DNA of Claim 2.

9. A host cell genetically engineered with the vector of Claim 8.

10. A process for producing a polypeptide comprising: expressing from the host cell of Claim 9 the polypeptide encoded by said DNA.

11. A process for producing cells capable of expressing polypeptide comprising genetically engineering cells with the vector of Claim 8.

12. A polypeptide comprising a member selected from the group consisting of (i) a polypeptide having the deduced amino acid sequence of Figure 1 and fragments,

analog and derivatives thereof; and (ii) a polypeptide encoded by the cDNA of ATCC Deposit No. 97142 and fragments, analogs and derivatives of said polypeptide.

13. A compound which activates a receptor for the polypeptide of claim 12.

14. A compound which inhibits the the polypeptide of claim 12.

15. An antibody against the polypeptide of claim 12.

16. A process for identifying compounds which inhibit activation of the polypeptide of claim 12 comprising:

contacting cells which express a CGF receptor on the surface thereof with labeled CGF and a compound to be screened under conditions suitable for binding of ligands to said receptor; and

determining the extent of binding of labeled CGF to the receptor by measuring the amount of label attached to the receptor.

17. A process for identifying compounds which inhibit activation of the polypeptide of claim 12 comprising:

contacting cells which express a CGF receptor on the surface thereof with a compound to be screened under conditions suitable for binding of ligands to said receptor; and

determining the extent of binding of of the compound to the receptor and the lack of a signal generated by the binding.

18. A process for identifying compounds which activate a receptor to the polypeptide of claim 12 comprising:

determining the extent of binding of the compound to the receptor and the presence of a signal generated by the binding.

determining a mutation in the polynucleotide of claim 1.

20. A diagnostic process comprising:  
analyzing for the presence of the polypeptide of  
claim 12 in a sample derived from a host.

[illegible]

add C3

Add E3